

Title (en)  
MUD POWERED INERTIA DRIVE OSCILLATING PULSER

Title (de)  
SCHLAMMBETRIEBENER OSZILLIERENDER IMPULSGEBER MIT SCHWUNGMASSENANTRIEB

Title (fr)  
GÉNÉRATEUR D'IMPULSION OSCILLANT À COMMANDE À INERTIE ET ALIMENTÉE PAR BOUE

Publication  
**EP 2745147 A4 20160113 (EN)**

Application  
**EP 11873541 A 20110927**

Priority  
US 2011053476 W 20110927

Abstract (en)  
[origin: WO2013048374A1] In a general aspect, a mud pulse telemetry tool is used in a drill string that has a drilling fluid flowing inside. The mud pulse telemetry tool may include a pulser disposed in the drill string and a drive system for driving the pulser. The pulser may include a non-rotating mud pulse stator and a mud pulse rotor disposed proximate to the stator. The drive system may include a turbine stator, a turbine rotor, and a rotatable inertial member magnetically coupled to the turbine rotor. The inertial member may be operatively connected at a first end to the mud pulse rotor. In some specific aspects, in the mud pulse telemetry tool, rotational energy may be transmitted from the turbine rotor to the rotatable inertial member by a magnetic coupling. The rotatable inertial member may be operatively connected at a second end to a supplemental motor that is adapted to supplement rotational energy imparted to the rotatable inertial member by the drive system.

IPC 8 full level  
**G01V 1/40** (2006.01); **E21B 47/18** (2012.01)

CPC (source: EP)  
**E21B 47/24** (2020.05)

Citation (search report)  
• [XI] GB 1491810 A 19771116 - MOBIL OIL CORP  
• See references of WO 2013048374A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2013048374 A1 20130404**; CA 2853887 A1 20130404; CA 2853887 C 20160531; CN 103827695 A 20140528; CN 103827695 B 20180302; EP 2745147 A1 20140625; EP 2745147 A4 20160113; EP 2745147 B1 20170405; RU 2560140 C1 20150820

DOCDB simple family (application)  
**US 2011053476 W 20110927**; CA 2853887 A 20110927; CN 201180073718 A 20110927; EP 11873541 A 20110927; RU 2014116626 A 20110927